



MULTI-FUNCTIONAL EQUIPMENT

AMERICAN EDELSTAAL INC. | 350 BROADWAY | NEW YORK 10013 | WOrth 6-1140

Your copy of the new Maximat 10 catalog is enclosed.

Thank you for requesting it!

It's a pleasure to send you this detailed and complete presentation of the remarkably versatile Maximat 10 equipment. The brochure shows you many of the features and advantages that have made Maximat 10 one of the most popular and practical machine tools for producing precision parts!

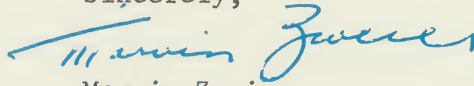
Since its introduction in 1957, thousands of Maximat machines have been installed in scientific, industrial and medical research laboratories, instrument and model shops and small job shops. In all these applications, Máximat 10 has proven itself an ideal, all-around facility for machining metals and synthetics.

The latest models (Nos. 4100 and 4000) just recently introduced, are the finest Maximats ever made. Yet they are relatively inexpensive when you consider the versatility and quality of these fine machines. Model 4100 is the most popular and versatile and costs \$1350, f.o.b., New York. At the present time, delivery is approximately 14 days after receipt of your order. All Maximat equipment, including electricals, is fully guaranteed for one year.

The Maximat brochure will probably answer all your questions. If not, our technical service staff will be pleased to assist you. If you would like to see a Maximat 10 in operation, the Maximat dealer in your area will be pleased to arrange for a demonstration at your convenience. As a machine tool specialist, he is well qualified to help you in every way.

We hope our Maximat equipment will be of value to you and your company, and look forward to fulfilling your requirements.

Sincerely,

  
Marvin Zweier

MZ:mn/1

MAXIMAT DIVISION

AUTHORIZED MAXIMAT DISTRIBUTORS

Our distributors listed below have been carefully selected to sell products of the MAXIMAT division, American Edelstaal, Inc. Distributors are listed geographically and alphabetically. You can place your order for MAXIMAT equipment in person, by phone or mail with the distributor of your choice. In the event our distributor does not have what you want in stock, just ask him to order it for you.

THE TOOLS YOU BUY TODAY...

SHAPE THE THINGS YOU MAKE TOMORROW!

ALABAMA

Alabama Engineering  
2100 Triana Blvd. S. W.  
Huntsville, Alabama  
Att: Mr. Stanley Farrow  
539-2022

ARIZONA

Roy J. Heyne Machine Company  
707 W. Buchanan  
Phoenix, Arizona  
Att: Mr. Graves  
252-7196

Reuben Schneider Wholesale  
27 West Roosevelt  
Phoenix, Arizona  
AL8-0943

CALIFORNIA

J. L. Axelson Company  
2449 West Beverly Blvd.  
Montebellow, Calif.  
OV5-8570

Riley Precison Tool  
690 Broadway  
Redwood City, Calif.  
Att: Mr. Thomas Egan  
368-4184

Hammond Machinery & Supply Co.  
3033 India Street  
San Diego, Calif.  
Att: Mr. R. C. Macon  
298-6155

Montague-Harris & Co.  
1423 San Mateo North  
San Francisco, Calif.  
Att: Mr. Arthur Harris  
589-7611

COLORADO

DiEugenio Tools of Denver, Inc.  
88 Lipan Street  
Denver, Colorado  
Att: Mr. Faran  
825-6225

Overgard Machine Tool Co, Inc.  
2045 West 8th Avenue  
Denver, Colorado  
Att: Mr. Carl M. Overgard  
MA3-3141

CONNECTICUT

Kawie Tool Supply  
676 Tolland Street  
E. Hartford, Conn.  
289-8291

FLORIDA

DTC Tools  
2777 Northwest 54th Street  
Miami, Florida  
Att: Mr. Schoemann  
633-9081

Gulf Coast Industrial Supply  
2226 Fairfield Avenue  
St. Petersburg, Florida  
Att: Mr. Bob Scarpa  
862-6561

ILLINOIS

Chicago Supply & Tool Co.  
901 N. Western Avenue  
Chicago, Illinois  
EV4-3933

Brett Machinery Company  
639 Madison Street  
Oak Park, Illinois  
Att: Mr. E. C. Shafer  
MA6-2626

MARYLAND

Phillips Machinery & Supply  
5102 College Avenue  
College Park, Maryland  
Att: Mr. Albert Phillips  
AP7-0418

MASSACHUSETTS

Frank A. Parker  
1256 Main Street  
Waltham, Mass.  
Att: Mr. Frank A. Parker  
TW9-2640

MICHIGAN

J. A. Jyleen Machinery Sales  
Clarkson, Michigan  
Att: Mr. Jack A. Jyleen  
MA5-7441

MISSOURI

K. P. Wesseling & Co.  
1526 North Broadway  
St. Louis, Missouri  
Att: M.E. Burkhard  
CH1-5036

NEW JERSEY

George Sharp, Inc.  
P.O. Box 81  
Hasbrouck Hgts, N.J.  
Att: Mr. George Sharp  
AT8-2288

NEW MEXICO

Equipment Sales & Mfg. Co.  
1018 Fourth Street N.W.  
Albuquerque, N. M.  
Att: Mr. E. Gray  
247-3781



NEW YORK

Triplex Machine Tool Co.  
25-20 43rd Avenue  
Long Island, N.Y.  
Att: Mr. David A. Moreinis  
EM1-1700

Center Tool Company  
108 Lafayette Street  
New York, N. Y.  
Att: Al Hefner  
CA6-6323

OHIO

Dessil Tool & Supply  
1616 St. Clair Avenue  
Cleveland, Ohio  
Att: Mr. Sid Silverman  
241-7445

OKLAHOMA

General Machinery & Equipment Co.  
2441 East King Street  
Tulsa, Oklahoma  
Att: R. E. Hunter  
WE9-0929

OREGON

Beaver State Machinery  
2801 S. E. 9th Avenue  
Portland, Oregon  
232-4404

PENNSYLVANIA

Atlas Machinery  
118-120 N. 2nd Street  
Philadelphia, Pa.  
Att: Hans Greenberg  
WA5-3682

McBeth Machinery Co.  
Manor Oak Office Bldg.  
1910 Cochran Road  
Pittsburgh, Pa.  
Att: Mr. Wm. Lighth  
LO3-2500

Richard Byrnes Company  
600 Hannum Avenue  
Wester Chester, Pa.  
692-2770

UTAH

Keith's Hobby House  
170 East 8th So.  
Salt Lake City, Utah  
Att: Mr. Keith Steele  
EL9-5896

VIRGINIA

Shenandoah Tool & Supply  
1600 Colorado Street  
Salem, Va.  
Att: Mr. J. S. Watts  
389-8141

WASHINGTON

Aronson's Hardware  
1st Ave. at Pike Street  
Seattle, Washington  
Att: Mr. Aronson  
MA4-1777

WEST VIRGINIA

Banks Miller Supply Company  
5111 MacCorkle Avenue S.W.  
Charleston, W. Va.  
Att: Mr. H. Hughes  
768-3941

EFFECTIVE: May 1, 1966

MAXIMAT INDUSTRIAL PRICE SCHEDULE

TERMS: Net 30 days, F.O.B., NEW YORK WAREHOUSE DELIVERY: Approx. 4 Weeks ARO

Cat. #	Description	Price	Nt. Wt.
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MAXIMAT MODELS AVAILABLE...

Model 4100 Dual Spindle Quick-Change MAXIMAT

Lathe Headstock, Vertical Column with leadscrew, Vertical Headstock, Draw Bar 25/32" capacity. 2 Motors with reversing switch\*, Quick Change Box, Face Plate, Lathe Dog, 2 Dead Centers, Single Tool Holder, V-Belts, Grease Gun, Set of Wrenches, Spare Hardware, Operating Instructions \$1350.00 475#

\*When Ordering, Specify Catalog #s of 2 Motors Desired.

Model 4000 Dual Spindle Manual-Change Gear MAXIMAT

Identical to Model 4100 described above, except that in place of the Quick Change Box which provides instant selection of Threads and Feeds, - a quadrant and set of 12 Change Gears is provided. In this Model, the lead-screw is belt driven .... \$1210.00 440#

\*When Ordering, Specify Catalog #s of 2 Motors Desired.

Other Availabilities

Models 4100 and 4000 are both available with Metric Threads and Calibrations on all spindles, lead and feed screws, and micrometer collars.

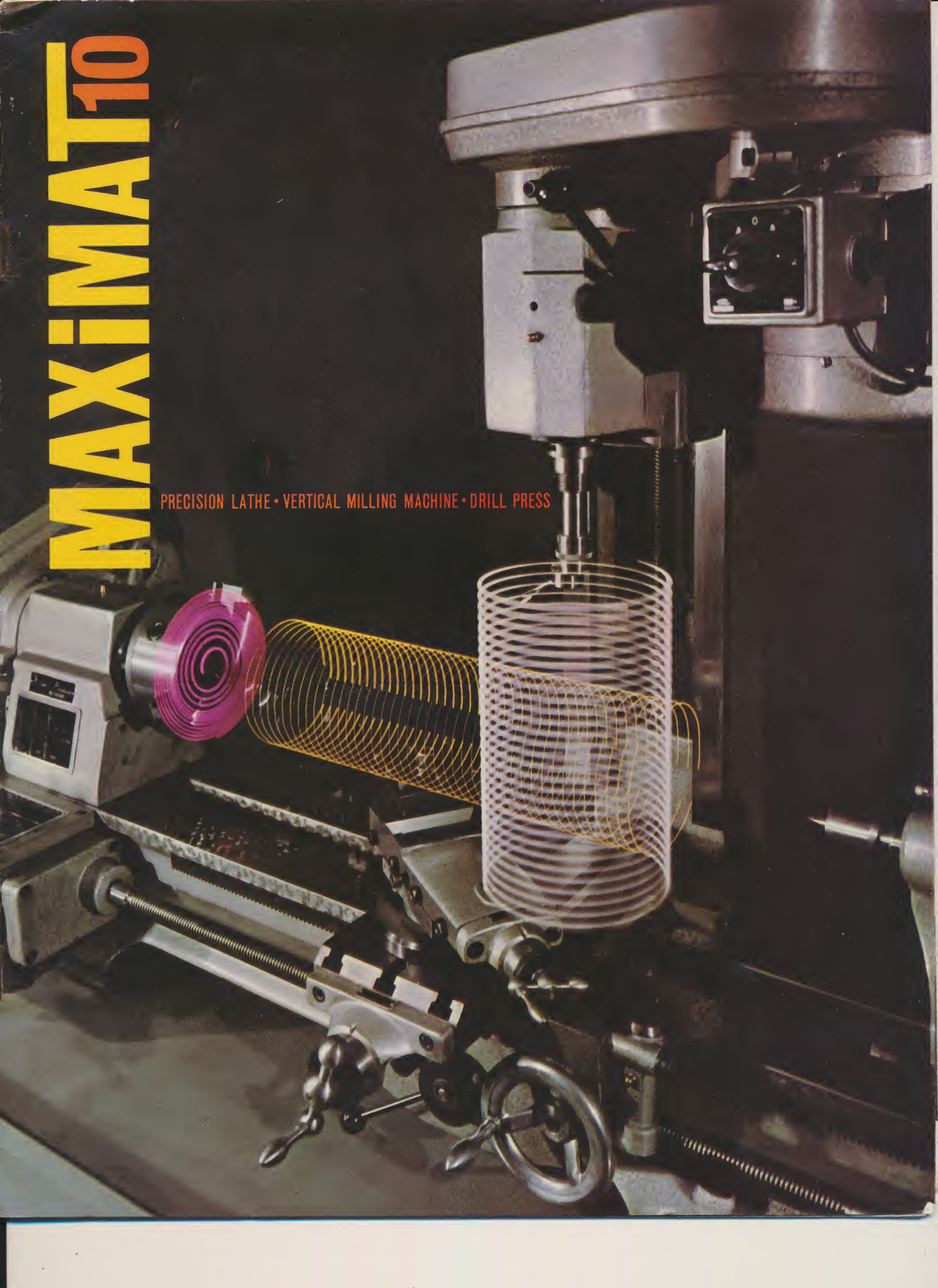
MAXIMATS can also be specially ordered without the Vertical Headstock-Motor Unit or Vertical Column. Quotations will be furnished upon request.

Motors Available \*When Ordering Model 4100 or 4000, Specify 2 Motors Desired.

- A) 115 V - 60 Cycles - 1 phase capacitor type
- | Cat # | HP  | Speed    |
|-------|-----|----------|
| 2910  | 1   | 1725 rpm |
| 2912  | 3/4 | 1120 rpm |
- B) 220/440 V - 60 Cycles, 3 phase, capacitor type
- |      |     |          |
|------|-----|----------|
| 2900 | 3/4 | 1725 rpm |
| 2901 | 3/4 | 1120 rpm |

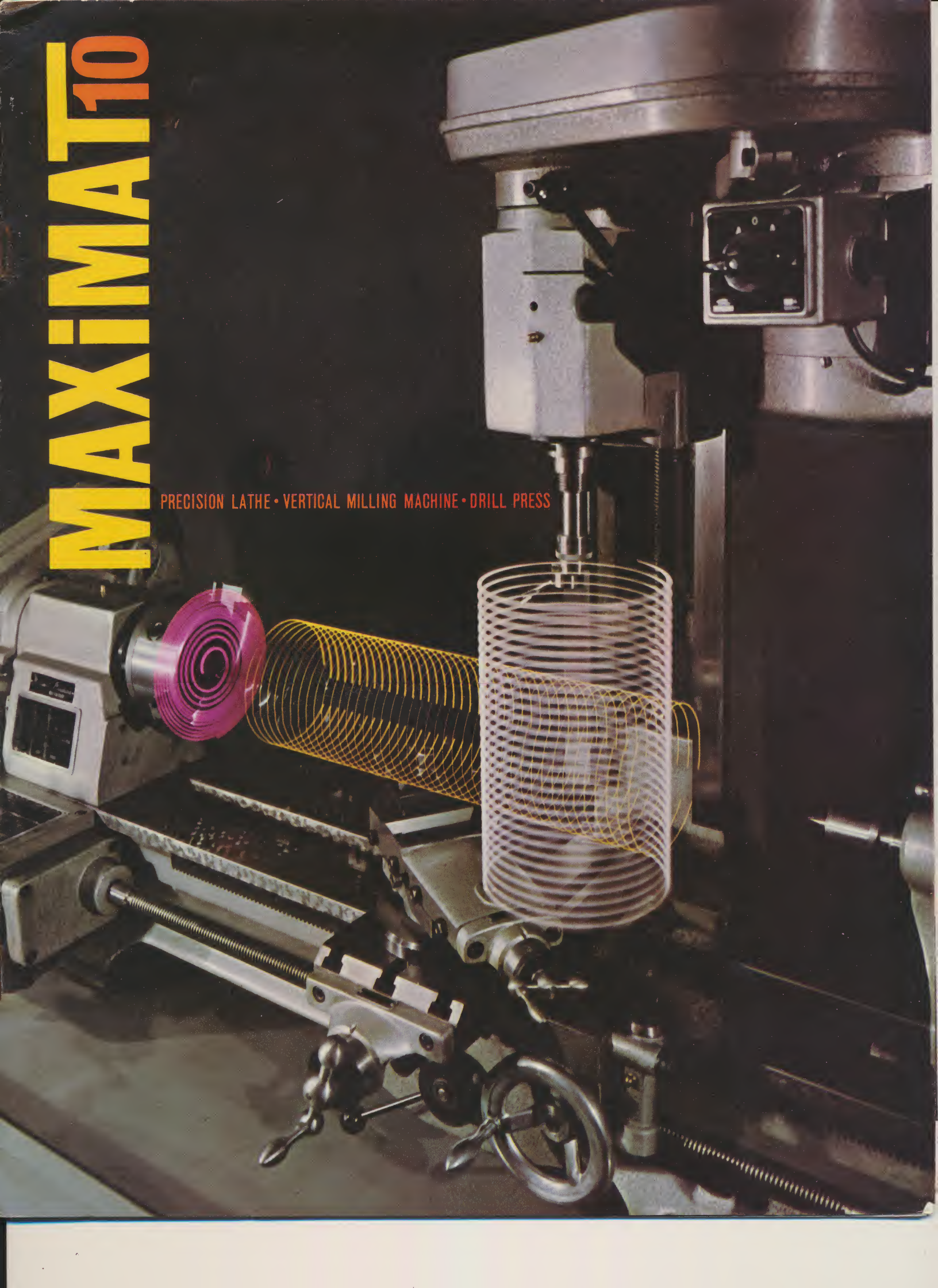
See Accessories Price Schedule, Reverse Side.





# MAXIMAT<sup>10</sup>

PRECISION LATHE • VERTICAL MILLING MACHINE • DRILL PRESS



# MAXIMAT<sup>10</sup>

PRECISION LATHE • VERTICAL MILLING MACHINE • DRILL PRESS



THE NEW

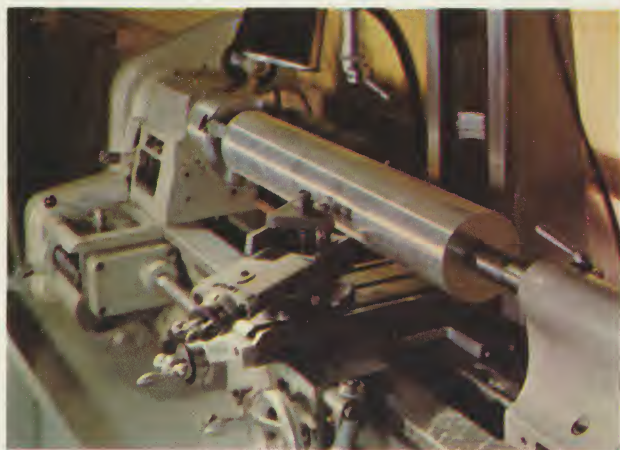
# MAXIMAT<sup>10</sup>

DESIGNED FOR MAXIMUM VERSATILITY, EFFICIENCY AND ECONOMY

In 1800, Henry Maudslay demonstrated lathe design improvements that added up to one of the most important inventions in history. He had built the first metal-cutting lathe capable of producing a variety of duplicate screws. Truly the father of all machines which followed, the screw cutting lathe

is the most useful and versatile of all metal cutting tools. But from the start, lathes were designed to turn and thread only; milling machines to cut laterally; drilling machines to bore holes. Rarely did machine builders attempt to expand upon these basic machine functions. Yet the beds, feed

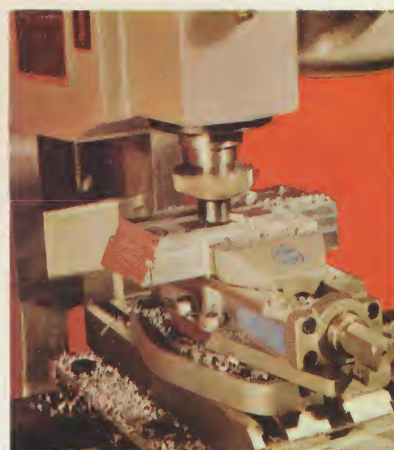
screws, spindles and bearings of lathes, drilling, and milling machines have many similarities in common. By combining these functions into one compact unit, there would be a cost saving; one machine frame instead of two—tool holders as well as work-holding devices would not have to be duplicated.



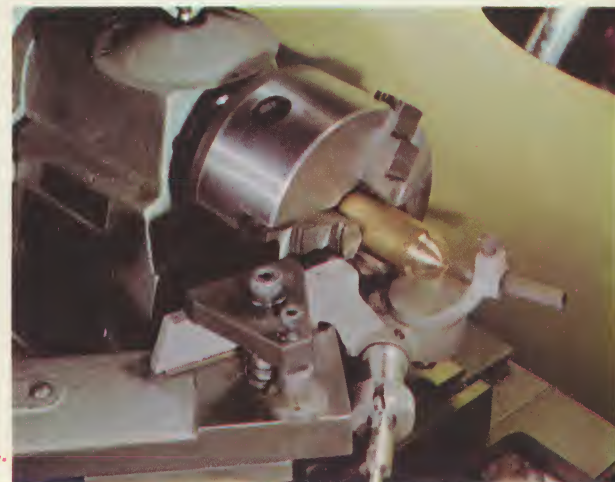
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**This Partial List of Maximat Users Is Representative Of Hundreds Of U. S. Installations.** I.B.M. Corp. / G. E. Marshall Space Flight Center / Owens-Illinois Glass Co. / M.I.T. / Picatinny Arsenal / Lawrence Radiation Lab., U. of C. / The Boeing Co. / Cleveland Cap Screw Co. / Massachusetts General Hospital / General Motors / Sandia Corp. / U. S. Naval Ordnance Test Station / General Dynamics / Monsanto Research / Pan-American World Airways / U. S. Army Missile Support Command, Redstone Arsenal / General Electric Co. / Union Carbide Corp. / McDonnell Aircraft Corp. / Texas Instruments.



This idea developed into an extensive program of invention and research that resulted in the world-famous UNIMAT. (More than 80,000 Unimats in use prove the inherent value of the multi-functional idea.) New MAXIMAT 10, a larger American Edelstaal multi-purpose machine is now earning world-wide acceptance. Unimat and Maximat are not the first machines in the world to combine multiple functions. There have been many lathes and milling machines with attachments. But such afterthoughts in design always meant a sacrifice in accuracy, setup convenience or in machine stability.

Maximat 10 is *not* a lathe with attachments. From the start, it was designed as a multi-functional frame massed to properly support both horizontal and

vertical spindles. Lathe and bed castings went through many stages of load testing under extreme conditions, resulting in dozens of design refinements. Spindles using the finest bearings were designed to handle the *three different kinds of load*; radial load in lathe turning, end thrust in boring and drilling, and side thrust in milling.

These are the reasons your Maximat will hold tight accuracies better than many single-purpose machines in all its operations. The extra quality built into the massive castings delivers *extra accuracy*, often far beyond other machines in the same price bracket.

Maximat is a favorite in design and development laboratories, medical research facilities, electronic and military applications...wherever special

instruments and fixtures must be made quickly and accurately. Wherever space is precious, aboard subs, in mobile instrument repair trucks—Maximat is ideal because it fits anywhere doing the work of half a dozen separate machines.

With Maximat you can rapidly produce almost any shape in any material right in your own facility. But prototype work is only half the story, Maximat can be setup for profitable production work too.

Whether you are thinking of using Maximat 10 in a laboratory, plant or private shop, you'll find no other machine offers so many advantages with so much built-in precision and long life at so low an investment. The job illustrations in this booklet demonstrate these facts.



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1. Turning steel bar stock to diameter. Maximat handles up to 6x24 inch work pieces between centers; up to 65 pounds.

2. Precision threading of aircraft flange. Part is bored, then supported on mandrel between centers.

3. Steel stock in the design lab often must be reduced in thickness. Mounted in a collet, this cutter reduced a 1 inch aluminum bar to  $\frac{7}{8}$  inch thickness in only 5 minutes...parallel and accurate within one-thousandth!

4. An unusual job in a physics laboratory. Turning spherical radii on an electrode. Concave shapes are turned in the same manner.

5. On larger size holes, this tool post grinder is used to size and finish the work to exact dimension. The grinder also takes jewelers' lathe collets for milling or drilling.

6. Round shapes larger than the 10 inch lathe capacity can be produced by milling. This 18 inch disc is mounted on a rotary table and fed to the cutter.

7. Here Maximat generates its own special fixtures. Two vise jaws are being milled with a  $\frac{1}{2}$  inch end mill. Cut in tool steel was finished in about 15 minutes.

8. With a tilting vise, dovetails and slots for machine parts can be milled at any angle.

9. Turning a 6 inch square piece of  $\frac{3}{4}$  inch thick aluminum. Work is held in a 4-jaw lathe chuck... finish, super smooth.



**10.** This experimental resonator required 6 precisely spaced holes on the cylinder. Easy on a Maximat, the job is simply clamped to the cross slide table...the hand feeds used to locate the work accurately beneath the drill point.

**11.** This precision panel is part of a military computer, the holes bored to an accuracy of 5 tenths—located in position to within one thousandth. The dial indicator mounted in the collet chuck is used to check a bore. Movement to the next position is obtained by feeding with the calibrated lead screw and cross slide controls.

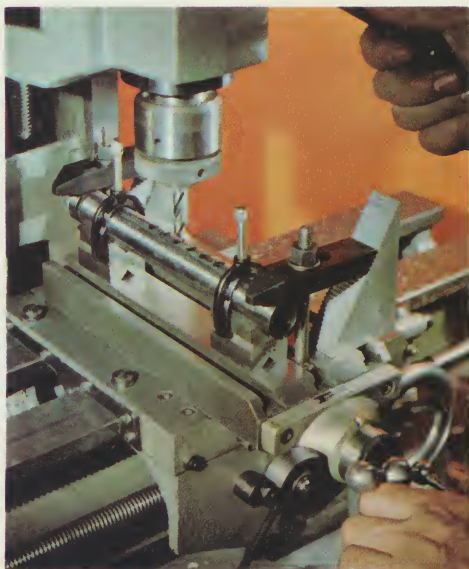
**12.** Angular machine parts are frequently needed in construction of special machinery. Workpiece is clamped to angle set table and milled. Slotting, or milling at compound angles can be done in the same way.

**13.** Slots in panels produced by an end mill. Maximat spindle speeds up to 3400 rpm are sufficient for clean fast cutting down to 1/4 inch diameter. High speed milling heads and the Maximat tool post grinder can also be used vertically.

**14.** Here is how large holes are bored on Maximat. Workpiece is a 14-inch electronic panel, clamped to a 9 1/2 x 16 inch tooling plate which in turn is bolted to the cross slide. Boring tool adjusts to exact hole size by thousandths.

The 14 job illustrations that you see on these pages demonstrate the fact that Maximat offers you more capability than any machine in its price category. Accessories further enhance Maximat ability. Turn to the back of the booklet to see more complex set ups... just as fast and easy to accomplish in your own laboratory.

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